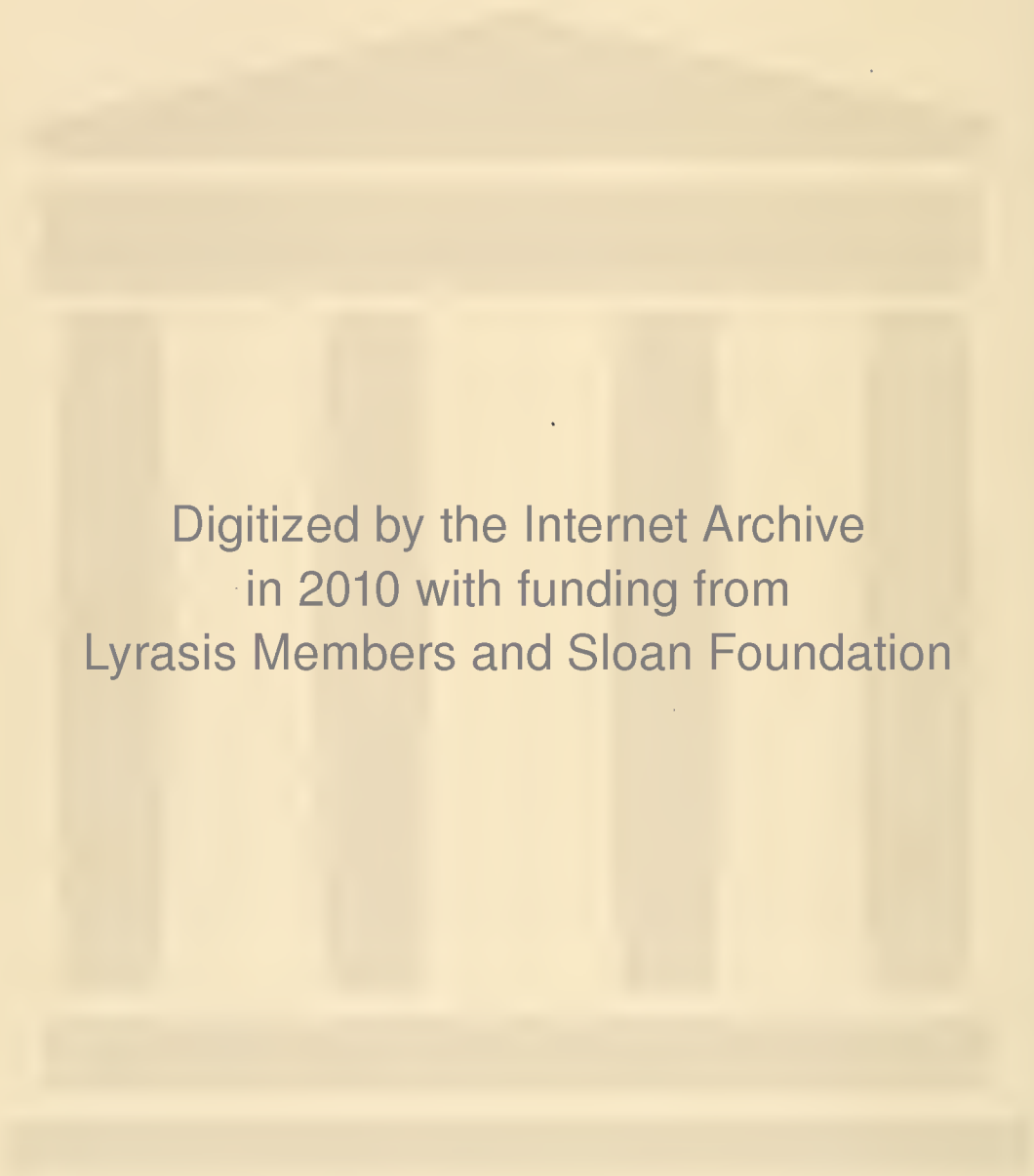

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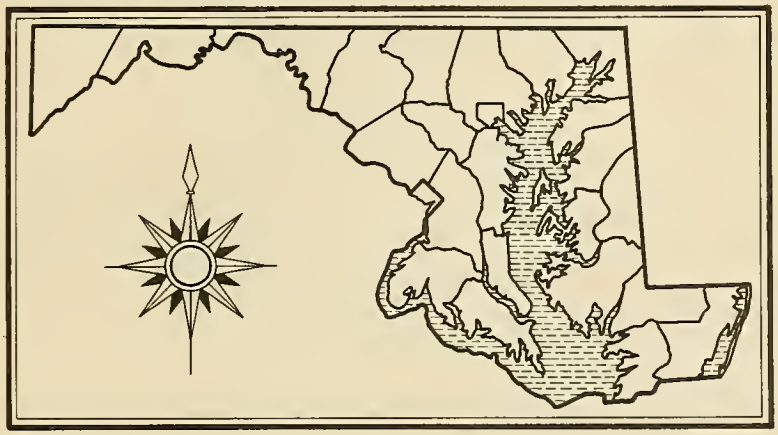
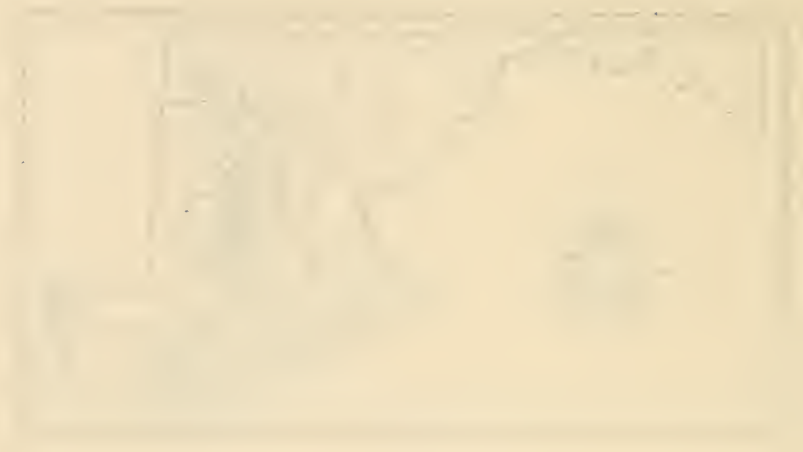


THIRD REPORT

MARYLAND MAPPING AGENCY

PUBLICATION Nº 24



SEP 25 1939 Gift

MARYLAND

STATE PLANNING COMMISSION

Baltimore, Maryland

Abel Wolman, Chairman

William L. Galvin Nathan L. Smith

Helena Stauffer

THIRD REPORT

OF

MARYLAND MAPPING AGENCY

S. S. Steinberg, Director, C. B. Kegarice, Engineer-in-Charge
College Park, Maryland

Sub-Committee:

S. S. Steinberg, Chairman

F. H. Dryden T. F. Hubbard

E. B. Mathews C. F. Merriam

H. W. Schaidt J. W. Shirley

N. L. Smith

Sponsored jointly by the Maryland State Planning Commission and the University of Maryland. Assistance in the preparation of these materials was furnished by the personnel of Works Progress Administration, Work Project No. 7068.

July 1939.

INTRODUCTORY STATEMENT

The third and final report of the Maryland Mapping Agency is now published for the information of the public in order to present recent progress in the Agency's work and the reasons for terminating the Agency in its original form.

The Maryland Mapping Agency was inaugurated in February 1936 as a cooperative enterprise of the University of Maryland, the Works Progress Administration, and the State Planning Commission. The broad purpose of the Agency was to coordinate mapping activities in Maryland. The several objectives were outlined in further detail in the first and second reports of August 1936 and October 1937 together with statements of progress and reference list of maps available for examination. The 1937 report also commented on the need for additional mapping and a state-wide plano coordinate system.

The value of the Agency's work to the public seemed so clearly demonstrated, and the facilities for satisfactorily solving its more complicated problems were so limited, that it was determined late in 1938 to provide for legal establishment of a permanent unit with more adequate financial support than had hitherto been available. A bill was drawn providing for the establishment of the Maryland Coordinate System and of a Bureau of Control Surveys and Maps in the State Department of Public Works to effect the System and take over the work of the Mapping Agency. The bill was passed at the 1939 session of the General Assembly and became effective June 1, 1939. Funds for financing the operations of the Bureau at that time were not made immediately available by the Act, but current negotiations of the Bureau's Advisory Board are expected to lead to early inauguration of the work.

With the legal establishment of a bureau in one of the departments of the State Government to assume the work of the Maryland Mapping Agency, the State Planning Commission withdraws administratively form the enterprise, as is its policy. The Commission appreciates the efforts of all who have cooperated in making the Maryland Mapping Agency a success. Possibilities of much greater value to the public lie in the future work of the new Bureau of Control Surveys and Maps and the Commission hopes to continue to cooperate in its future work.

Abel Wolman, Chairman
Maryland State Planning Commission

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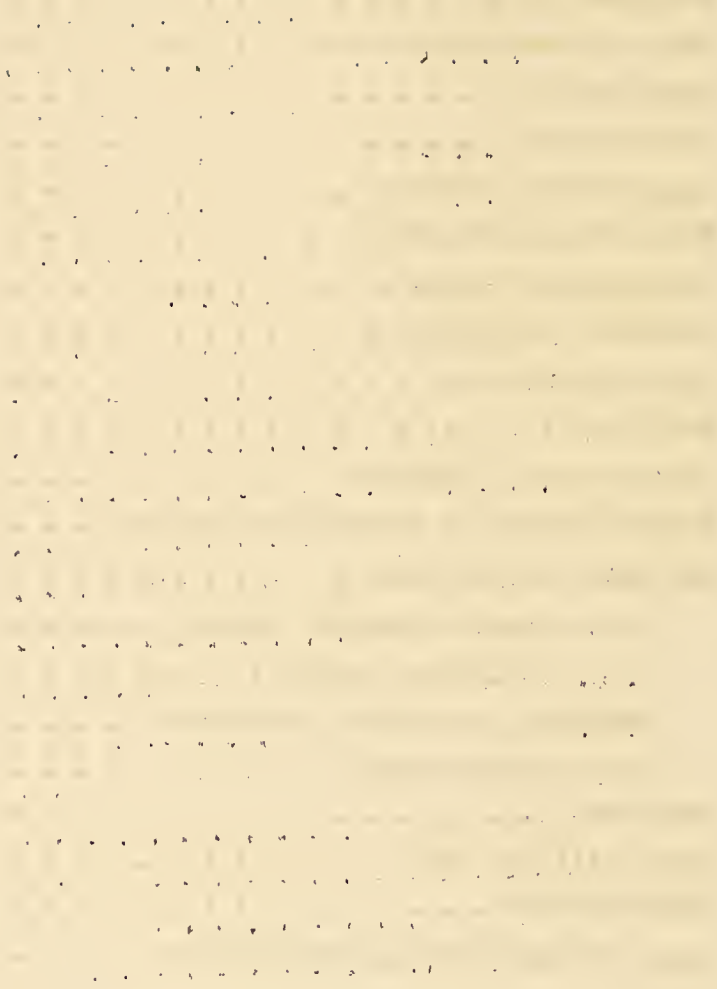

The Maryland Mapping Agency, sponsored jointly by the Maryland State Planning Commission and the University of Maryland, was inaugurated on February 13, 1936 as a Works Progress Administration project, at College Park, Maryland, with an office in the Engineering Building of the University of Maryland. Dean S. S. Steinberg is Director and C. B. Kegarice, formerly chief Computer on the Local Control Civil Works Administration Project in Maryland, is Engineer-in-Charge.

PURPOSES AND FUNCTIONS

The purposes and functions as enumerated and set forth in both the First and the Second Report will not be repeated, in as much as most of them are embodied in House Bill 645, General Assembly of 1939, and later contained herein following page 10

It is repeated that the purpose of this work is to collect and correlate at one agency all the maps of Maryland and its subdivisions made by federal, state, municipal, metropolitan, corporate and private agencies, so that there will be one central point where all information concerning maps of Maryland will be available, and that duplication and overlapping in work of the future may be eliminated. The advantages of this Agency to the engineers of the State are: first, an engineer will be able to learn from a visit to the Agency just what maps are available for the territory in which he is directly interested; second, he can at once determine the exact value of such maps; third, he can, after examining the map or maps suitable to the projects at hand, learn the exact department from which copies may be obtained; fourth, he can obtain data on known and established points from which he can base his field work and plot same on the larger map of the area in which his work is located.

PERSONNEL

The personnel of the Agency, in addition to the Director and the Engineer-in-Charge has varied in numbers from time to time as is shown by the following schedule:-

From	To	No. of Men
February 13, 1936	May 26, 1936	2
May 26, 1936	August 14, 1936	7
August 14, 1936	December 31, 1936	6
December 31, 1936	March 25, 1937	2
March 25, 1937	June 30, 1937	3
June 30, 1937	November 29, 1937	2
November 29, 1937	January 26, 1938	1
January 26, 1938	July 29, 1938	2
July 29, 1938	March 31, 1939	1
March 31, 1939	Date	none

The above time proportioned to the total time is equivalent to approximately 2 men for 53 per cent of the time and 3 men for 47 per cent of the time.

The larger number of men during the period from May 26, 1936 to December 31, 1936 was made possible by a less drastic relief status, and for the period from March 25, 1937 to June 30, 1937 the services of one man were furnished by the National Resources Board.

MAPS AND PAMPHLETS

There has been collected to date 1,151 maps and 101 pamphlets, each described and listed in the index appended hereto.

Summarized and subdivided as follows:-

Maps assembled mounted	120
Maps assembled and mounted	385
Prints assembled and not mounted	407
Prints assembled printed on linen	84
Tracings made of prints	155
Total	1,151

Made by Federal Agencies	259
Made by State Agencies	380
Cities and Towns Lithoprints	84
Cities, Towns and Subdivisions prints	236
Cities, Towns and Subdivisions tracings	128
Miscellaneous prints, tracings, etc.,	64
Total	1,151

MAPS MOUNTED

The procedure of mounting these maps, together with the kind of equipment and material used, was described in detail in the First Report.

At the present time all maps except office work sheets, either printed or lithographed, have been mounted, numbering in all 385. Maps received as prints, either blue, white or black line have not been mounted.

In this connection it should be noted that much better results were obtained by increasing the minimum time for drying from eight hours for small maps and from twenty-four hours for larger maps, as stated in the First Report, to twenty-four hours

and forty-eight hours respectively in order to be sure to compensate for the differences in the time of drying required by various printings and the different kinds of paper used.

Also it can be reported in answer to the questions about the use of a flour paste, that the first maps mounted, whether hung on the wall or filed in the drawers, March 1936, submitted to extremes in both temperature and humidity together with a certain amount of handling are now in perfect condition.

TRACINGS MADE

There have been some cases where it was impossible to secure a print or map for the files due to the fact that the person or organization contacted had only the one copy. In these cases, the map or print was borrowed and a tracing of same was made on linen. The number of tracings made is 168.

LOCAL CONTROL SURVEYS

As was described in detail in the Second Report it was possible with the number of men available in the summer of 1936 to accomplish some field work in the continuation of the local control surveys begun under the Civil Works Administration and to do the office computations of same.

A small field party with equipment loaned by the U. S. Coast and Geodetic Survey and the U. S. Geological Survey continued this work in the vicinity of the office by running three lines for a total of 22.8 miles on which 18 permanent concrete monuments were set and located including the proper references.

PLANE COORDINATE TABLES

The computation of plane coordinates on the Lambert grid of the minute intersections of meridians and parallels has been started and to date a list of the natural sines of the θ angles has been computed to ten places and thoroughly checked. Also a similar table of the natural sines of $\theta/2$ to ten places has been made and checked; together with the computations of the formula $2 \sin^2 \theta/2$. About one half of the final form sheets for this tabulation have been ruled and lettered.

This table and its uses are described more fully in the Second Report.

INDEXING AND FILING

A careful study of the indexing and filing systems now in use was made as described in the First Report and an index card in the form as shown in both the First Report and the Second Report was adopted.

One thousand of these cards, 4"x6" in size, have been stenciled, mimeographed and trimmed to size together with fifteen sets of alphabetical index cards cut out and lettered.

GEODETIC COORDINATES

There are approximately 1,200 U. S. Coast and Geodetic Survey triangulation stations located in the State and within useful range of the boundary in the adjoining States.

The geodetic position, adjusted on the North American Datum of 1927, of 1,117 of these stations is now on file with the Agency. The sheets on which this data is tabulated have been received from the U. S. Coast and Geodetic Survey in two installments, the first, containing 127 sheets and giving the position of 823 stations, has been mounted on linen and bound into book form together with an alphabetical index listing page and line of each station; the second, containing sheets nos. 128 to 175 inclusive and giving the position of 294 stations has not yet been mounted.

The stations in addition to the ones on hand that have been used in the above approximation are those stations that have not yet been adjusted on the North American Datum of 1927, located principally in the vicinity of Hagerstown and north to the State line and from Baltimore City north to the State line; also some stations that have been established recently in the area of the Baltimore harbor, upper Chesapeake Bay and the Gunpowder River in connection with air photographic surveys of the upper Chesapeake Bay by the U. S. Coast and Geodetic Survey.

An office index containing 46 pages, arranged alphabetically in County divisions have been made of all the known stations and such information as the latitude and longitude, the datum on which the geodetic position is computed, whether the plane coordinates on the Lambert grid have been worked, if the station has an accessible azimuth mark and if a location description is on file, is checked for ready reference and use.

PLANE COORDINATES

Forms the same as the U. S. Coast and Geodetic Survey Form No. 725, Plane Coordinates on Lambert Projection, were made and approximately 600 copies were duplicated for use in these computations.

These forms are ruled and lettered for use with either logarithmic or machine computation but due to the fact that there was no machine available the computations were all made the longer method or with the use of logarithms to eight places.

To date the plane coordinates have been computed for 416 of the hereinbefore mentioned U. S. Coast and Geodetic Survey triangulation stations. The grid azimuth and the grid distance has also been computed for the stations necessary and used for the surveys of the Susquehanna River, the Chesapeake Bay (two locations) and the Potomac River bridges for the State Roads Commission.

WALL MAPS

For ready reference twenty-five of the mounted maps have been fastened on wooden rollers for use as wall maps. Of these maps some are indices for maps on file such as:- the quadrangle sheets of the U. S. Geological Survey, the harbor charts of the U. S. Coast and Geodetic Survey, the sectional county road maps of the State Roads Commission, the 1914 atlas sheets of Baltimore City and the symbol or abbreviation as adopted for reference to each county in the computations and filing of all work; others are maps of Annapolis, Baltimore City, Cumberland, Easton, Frederick, Hagerstown and Salisbury; the remainder miscellaneous in nature are such maps as, the extent of Aerial Surveys, the progress of the local control survey work done under the Civil Works Administration, one map showing the office work and one map showing the field work, the National Mapping Plan, the Baltimore-Washington-Annapolis Region, Washington and Vicinity, Minute Intersections, Large Maps of Maryland, State Road System and a local Sectional Aeronautical Chart. Some of these have been included and described in previous reports.

DISTRIBUTION OF REPORTS

The sub-headings of "contacts" and "cooperation received" appearing in the First and Second Report are not repeated but it is in order to describe the method of the distribution of these reports which to a great extent had much to do with both.

The First Report containing only thirty pages was smaller, did not require so much postage, and was mailed out by the University and the State Planning Commission to the various officials both State and National to the extent of two hundred and fifty-eight copies.

The Second Report however contained sixty-two pages and required too much postage for a complete mail distribution. The National Resources Board mailed a copy enclosed with a special letter, Bulletin B-58, to State Planning Boards and Field Offices in all of the forty-eight states, in Alaska and in Puerto Rico. The University

and the State Planning Commission has taken care of the postage for the out-of-state requests and inquiries. The local or within the State distribution however was made personally and four hundred and twenty-one copies were so distributed. The total number of copies of the Second Report sent out to date is five hundred and twenty-five copies which shows to some extent the demand which it created and the enthusiasm with which it was received.

Many written acknowledgements have been received, some in terms of commendation and some as inquiries about detail and methods specially adapted to specific parts in which they were most interested and it is gratifying to note that since inauguration of this Agency other States have become greatly interested in the possibility of creating some agency to solve their individual problems.

PRESENT STATUS OF TOPOGRAPHIC MAPPING

The entire State is covered by topographic maps, drawn to a scale of 1:62,500 and published by the U. S. Coast and Geodetic Survey in 15 minute quadrangle sheets; also by the Maryland Geological Survey in sheets covering the area of an entire county. Due to the date of the field work, some of which is more than forty years ago, much of the area is either inadequately mapped or in need of revision of cultural features to meet and serve present requirements.

As recommended in the Second Report as of June 1937, the area in which the topographic maps need revision of cultural features to serve present requirements is 3,787 square miles, and the area in which the topographic maps are inadequate for present requirements, such areas to be remapped, is 4,701 square miles. Of this area it was recommended that an area of 1,141.63 square miles surrounding the City of Baltimore be remapped on a larger scale, 1:24,000, for publication in $7\frac{1}{2}$ minute quadrangle sheets.

Due to the strategic location with respect to the Nation's Capitol and to the vast amount of regional planning now being done in this area both by State and Federal agencies, it would seem advisable to extend this area recommended to be remapped on a larger scale, to include that area commonly known as the Baltimore-Washington-Annapolis area, or in other words extend same to include Annapolis and that area in Maryland adjacent to the District of Columbia.

NEW MAPS AND REVISIONS

The new maps, revisions and reprints of present maps that have been made since the time of the Second Report, June 1937, follow. All copies that are on file are repeated in the index appended hereto.

U. S. Coast and Geodetic Survey

New Editions of Nautical Charts

Maryland - No. 1226, July 1937, includes changes in depths in and along the channel in the bay north of Poolew Island.

Maryland - No. 549, May 1938, depth changes east of Pooles Island and amendments to shoreline and depths in vicinity of Curtis Bay and the Municipal Airport also changes to depths in vicinity of Sparrows Point.

Maryland - No. 545, June 1938, contains amendments to depths in vicinities of Sparrows Point, Curtis Bay and entrance to Colgate Creek.

Maryland - No. 1226, July 1938, the 1:20,000 scale plan of Back Creek has been removed as that area is included on new chart No. 570.

New Nautical Chart

Maryland and Delaware - No. 570, May 1938, a new chart of the Chesapeake and Delaware Canal, showing recent dredging. Depths are in feet below plane of mean low water.

New Editions of Regional Aeronautical Charts

10 - M, March 22, 1938, covers the area, about 198,000 square miles, included in sectional aeronautical chart, Boston, Albany, New York, and Washington and contains the addition of all railroads, 35 cities, and many important changes in air navigation facilities since the March 1937 edition.

10 - M, February 1939, numerous changes in air navigation facilities.

New Editions of Sectional Aeronautical Charts

Washington, September 1938, accumulation of changes since last edition.

Washington, January 1939, accumulation of changes since last edition.

U. S. Geological Survey

Status same as shown in Second Report.

Maryland Geological Survey

New Editions of Topographic Maps:

Baltimore County - 1939, showing changes in election district lines as incorporated since last edition.

Somerset County - 1937

New Geological Maps:

Charles County -- 1939

Frederick County - 1938, including adjacent parts of Washington and Carroll Counties.

Maryland State Roads Commission in cooperation with the U. S. Department of Agriculture, Bureau of Public Roads, data obtained from State-wide Highway Planning Survey.

A set of maps, five for each county unit and four state-wide, that will not only be useful to the State Roads Commission itself in planning and coordinating its work but will be useful to many governmental agencies both State and Federal and to the public in general. This work had been temporarily suspended due to the lack of funds but is again resumed and the maps completed and the preliminary prints of those now available are on file and listed in the index appended hereto.

These maps are being made by using the U. S. Geological Survey quadrangle sheets as a base and the County maps are of the same scale, 1:62,500. The Base map of this County series shows all public roads open to unrestricted public use whether State, County or under no governmental unit. The road bands are drawn to a larger scale to permit various markings, the incorporated towns are shown by both boundary and stipple and the unincorporated towns and special tax areas by boundary only. The population is shown in the corporate area if 1,000 or more, and other populations shown are tabulated in the culture table. The names of cities, towns, villages, streams, railroads, etc., are shown and such culture as farm units, houses, businesses, churches, schools, golf courses, public bathing beaches, etc., and anything that would cause generation of traffic are also shown.

From reproductions of these Base Maps a General Highway Map, a School Bus Route Map, a Rural Post Road Map and a Traffic Flow Map for each county is being made.

The State series, the Base Map of which is drawn to a scale of 1 inch = 4 miles, 1:250,000, and from reproduction of this base map a General Highway Map, a Transportation Map and a Traffic Flow Map is being made.

All of these maps are being published in black and white lithoprints.

Aerial Photographs

Since the date of the Second Report all that area as shown as then being photographed and that area as shown as not photographed on Figure VII has been completed for the Agricultural Adjustment Administration.

Also the U. S. Coast and Geodetic Survey has done some aerial work in the vicinity of the Baltimore harbor and the upper Chesapeake Bay.

The entire State is now aerial photographed.

PROGRESS

In addition to the progress hereinbefore noted there has been much accomplished toward establishing a permanent Agency and in the pioneer work in the preparation for the proper functioning of same.

With the passage of House Bill No. 645, a printed copy of which is incorporated as part of this report following the next page, the first steps of the purposes and functions of this Agency were made legal and recognized by the Legislative body of the State.

This Bill legalizes a system of plane coordinates as worked out by the U. S. Coast and Geodetic Survey on a projection that gives desired accuracy over the entire State, and makes its use recognized in and accepted by all courts of the State, thus permitting engineers and surveyors to avail themselves at once with the accuracy and convenience of the use of these coordinates from the monumented positions already established and of those to be established as the work continues.

The Bill also permits the entry of engineers and surveyors onto private property for the occupancy and use of these monumented positions, which due to the contour of the terrain have necessarily

been set on private property. (The local control positions to be fixed and monumented will not be on private lands but set on public property insofar as possible). This act also provides for the protection of survey monuments against wilful injury or destruction.

The two preceding sections have completely covered three of the original purposes and functions of this Agency, namely 11, 12 and 13.

This Bill also provides for establishing a Bureau of Control Surveys and Maps in the Department of Public Works to continue permanently the work of the present Maryland Mapping Agency and to develop the work in accordance with the original purposes and functions outlined in both the First and Second Report, 1 to 10 inclusive are incorporated in and as part of this Act. (This Bureau has not yet been set up but it is hoped that it will be inaugurated and will be continuing the work of this Agency in the near future.)

While the above legislation is the most defined progress to date there has been much progress along such lines as acquainting the engineeers and surveyors with the fact that there are now positions available for use in terms of plane x and y coordinates and also acquainting them together with the general public with the fact that the kind and nature of 1,151 maps may be inspected and general information regarding same may be acquired from a single visit to one office. This educational information has been publicized principally by addresses by the Director, Dean Steinberg, to various Bar Associations and to Engineer's Clubs and meetings and by the personal distribution of the Second Report and the contacts made in the acquisition of the maps on file by the Engineer-in-Charge.

HOUSE BILL NO. 645, CHAPTER 628, LAWS OF MARYLAND, 1939

AN ACT to add seventeen new sections to Article 91 of the Annotated Code of Maryland (1924 Edition), title "Surveyor and State Survey," said new sections to be known as Sections 25 to 41, inclusive, to be under sub-titles "Maryland Coordinate System", "Survey Stations", and "Bureau of Control Surveys and Maps", and to follow immediately after Section 24 of said Article, to describe, define and officially adopt a system of coordinates for designing the positions of points on the surface of the earth within the State of Maryland, exclusive of Baltimore City; to permit the entry of engineers and surveyors, and their representatives, onto private property for the purpose of using survey stations established by or under the direction of the United States Coast and Geodetic Survey, or as a part of the Maryland Coordinate System or by any other organization whose survey stations have been established by or in accordance with the requirements of the State Department authorized to administer the Maryland

Coordinate System; providing for payment of damages; and providing a penalty for the injuring, defacing and destruction of such marks and monuments; and to authorize the Department of Public Works to establish a Bureau of Control Surveys and Maps; to authorize this Bureau to administer the Maryland Coordinate System and to extend that system; to authorize this Bureau to take over the functions of the present Maryland Mapping Agency and extend its activities; to provide for an Advisory Board to control the activities and operations of this Bureau; and to provide for the expenditure of such available funds as may be necessary for conducting the work of this Bureau.

SECTION 1. Be it enacted by the General Assembly of Maryland, That seventeen new sections be and they are hereby added to Article 91 of the Annotated Code of Maryland (1924 Edition), said new sections to be under sub-titles "Maryland Coordinate System", "Survey Stations" and "Bureau of Control Surveys and Maps", to be known as Sections 25 to 41, inclusive, to follow immediately after Section 24 of said Article, and to read as follows:

Maryland Coordinate System

25. That the system of plane rectangular coordinates which has been established and adopted by the United States Coast and Geodetic Survey for defining and stating the positions or locations of points on the surface of the earth within the State of Maryland shall be hereafter known and designated as the "Maryland Coordinate System", and it shall be so designated in any land description in which it may be used.

26. The plane rectangular coordinates of a point on the earth's surface, to be used in expressing the position or location of such point on the above system, shall consist of two distances, expressed in feet and decimals thereof. One of these distances, to be known as the "x coordinate", shall give the position in an east-and-west direction; the other, to be known as the "y coordinate", shall give the position in a north-and-south direction. These coordinates shall be made to depend upon and conform to the plane rectangular coordinates of the triangulation and traverse stations of the United States Coast and Geodetic Survey within the State of Maryland, as those coordinates have been determined by the said Survey.

27. For purposes of more precisely defining the Maryland Coordinate System, the following definition by the United States Coast and Geodetic Survey is adopted:

The Maryland Coordinate System is a Lambert Conformal projection of the Clarke spheroid of 1866, having standard parallels at north latitudes 38° 18' and 39° 27', along which parallels the scale shall be exact. The origin of coordinates is at the intersection of the meridian 77° 00' west longitude and the parallel 37° 50' north latitude. This origin is given the coordinates: x = 800,000 feet and y = 0 feet.

The position of the Maryland Coordinate System shall be as marked on the ground by triangulation or traverse stations established in conformity

with the standards adopted by the United States coast and Geodetic Survey for first-order and second-order work, whose geodetic positions have been rigidly adjusted on the North American datum of 1927 and whose plane coordinates have been computed on the system herein defined.

28. Any triangulation or traverse station established as described in Section 27 of this Act, and any other triangulation or traverse stations which have been definitely established by or in accordance with the requirements of the State department authorized to administer this Act.', may be used in establishing a survey connection with the Maryland Cordinate System provided that such connection shall be made in accordance with the rules and regulations established by the State department authorized to administer this Act.

29. No survey of lands hereafter made shall have endorsed thereon any legend or other statement indicating that it is based upon the Maryland Coordinate System unless said survey shall have been based upon said system as herein defined.

30. Nothing contained in this Act shall be interpreted as requiring any purchaser or mortgagee to rely wholly on a description based upon the Maryland Coordinate System as defined in this Act.

31. This Act is exclusive of Baltimore City and in no way refers to or is connected with the coordinate system used by the Bureau of Plans and Surveys of Baltimore City.

Survey Stations

32. That any person duly qualified as an engineer or surveyor and his duly accredited assistants and representatives may, in the execution of surveys, enter upon any private land whereon there is a marked survey station for which the horizontal or vertical position has been determined by or under the direction of the United States Coast and Geodetic Survey, or as a part of the Maryland Coordinate System, or any other organization whose survey stations have been established by or in accordance with the requirements of the State Department authorized to administer the Maryland Coordinate System, if such entry is for the purpose of utilizing the horizontal or vertical position data in controlling surveys of land for cadastral purposes, or for other engineering purposes, private or public.

33. That the engineer or surveyor or his duly accredited assistants or representatives shall do no unnecessary damage to the property on which a survey station stands. The owner of the land shall be reimbursed for all damage done in so entering, the amount of damages to be agreed upon beforehand and paid promptly upon completion of work at said survey station. Where the amount of damages to be paid has not been or cannot be agreed upon beforehand, the party proposing to enter upon said property shall file good and sufficient bond in the Circuit Court of the county in an amount to be approved by the court, conditioned for the payment of all damages and costs when the same are finally ascertained

and fixed. The amount of damages to be paid shall be determined by three appraisers, residents of the county in which the property is located, appointed by the Circuit Court of the county. The proceedings for the ascertainment of damages shall be in accordance with the general road laws of the State for the ascertainment of damages for the taking, injuring or destruction of property in the laying out and opening of public roads.

34. Where the engineer or surveyor or his representatives entering on private property for the purposes stated in Section 32 of this Act, shall tender damages to owner of said property and said proffer is not accepted and the amount of damages determined according to procedure stated in Section 33 of this Act, shall not exceed amount of damages so proffered, then all costs in the matter shall be borne by the owner of the property, otherwise the cost shall be assessed against the party entering.

35. If any person shall wilfully injure, deface or destroy the mark or monument at any survey station established by or under the direction of the United States Coast and Geodetic Survey, or the State department administering the Maryland Coordinate System, or by any other organization whose survey stations have been established by or in accordance with the requirements of the State department authorized to administer the Maryland Coordinate System, or by any other State, Municipal or County agency, or shall offer any obstacles to the proper, reasonable, and legal use of any such station, such person shall be guilty of a misdemeanor, and, upon conviction thereof, shall be sentenced to pay a fine not to exceed two hundred and fifty dollars for each offense and costs, or shall be imprisoned for a term of not less than six months, or both, in the discretion of the court.

Bureau of Control Surveys and Maps

36. That a Bureau of Control Surveys and Maps be established in the Department of Public Works whose functions will be to administer the laws relating to the Maryland Coordinate System; to extend this system in Maryland and to take over the duties of the present Maryland Mapping Agency and extend its activities.

37. The activities of the Bureau of Control Surveys and Maps shall be determined by an Advisory Board consisting of the Chief Engineer of the State Roads Commission of Maryland, the Chairman of the State Planning Commission and the Dean of the College of Engineering of the University of Maryland. The members of this Board shall serve without compensation, except that they shall be reimbursed for their necessary traveling expenses.

38. The Advisory Board of the Bureau of Control Surveys and Maps shall determine the best location for the establishment of the office of this Bureau.

39. In carrying out the functions of the present Maryland Mapping Agency the Bureau of Control Surveys and Maps shall endeavor to develop the work of the agency in accordance with the following objectives:

(1) To coordinate the efforts of the many agencies, federal, state, city, county, and private, making surveys and maps in Maryland, in order to avoid duplication and overlapping.

(2) To develop permanent records of surveys and maps in the State.

(3) To develop uniform specifications for surveying and mapping.

(4) To collect and preserve all worth-while survey data, thereby salvaging for future use much valuable information now being lost; and to transcribe information to a master map.

(5) To encourage engineers and surveyors to tie their surveys into the horizontal and vertical control network of the United States Coast and Geodetic Survey, thereby making their lines practically indestructible.

(6) To encourage engineers and surveyors to adopt the use of the single plane coordinate system now being developed in Maryland, for engineering projects, for municipal and county boundaries and for private surveys.

(7) To become a depository for file copies of Maryland maps by all agencies and to establish a Library of Maps and Charts of the State.

(8) To serve as an information bureau concerning maps of the State or any portion thereof; to retail standard maps such as are in general demand; and, to a limited extent, reproduce maps for a reasonable charge.

(9) To serve annually as a central meeting point for representatives of Maryland map making organizations to discuss, coordinate and plan for mapping of the State; to direct the trend of surveys and maps of the State; and to advocate consolidation of State mapping bureaus to promote efficiency.

(10) To promote the continuation and completion of the local control surveys begun in Maryland under the C.W.A.; to serve as the coordinating agency for any program of mapping launched by the Federal government; and to determine priorities.

40. The Department of Public Works is hereby authorized to expend annually from its budget such funds as may be necessary to conduct the work herein authorized as determined by the Advisory Board of the Bureau of Control Surveys and Maps.

41. The Bureau of Control Surveys and Maps with the Advisory Board is authorized to employ such engineers, surveyors, clerical and other assistants and make such other expenditures as may be necessary to satisfactorily carry out the purposes of this Act.

SEC. 2. And be it further enacted, That if any provisions of this Act should be declared unconstitutional or invalid, such declaration shall not invalidate any other provisions thereof.

SEC. 3. And be it further enacted, That any Acts and parts thereof inconsistent with the provisions of this Act are hereby repealed to the extent of such inconsistency.

SEC. 4. And be it further enacted, That this Act shall take effect on June 1, 1939.

INDEX OF

MAPS AND PAMPHLETS ON HAND

JUNE 30, 1939

MARYLAND MAPPING AGENCY

INDEX OF
MAPS AND PAMPHLETS ON HAND, JUNE 30, 1939.

MAPS

Note: The sizes shown below give first the width and then the height of the map relative to the title and lettering on it.

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DEPARTMENT OF INTERIOR, UNITED STATES GEOLOGICAL SURVEY. Topographic maps; the unit of which is a quadrangle, bounded by parallels of latitude and meridians of longitude; of nearly uniform size about 16½ by 20 inches.

* * *

Two-mile scale (1:125,000), Datum is mean Sea Level:

CHOPTANK - Edition of 1908, reprinted 1934, contour interval 10 and 20 feet, Polyconic Projection, North American Datum.

DOVER - Edition of 1906, reprinted 1929, contour interval 20 feet, Polyconic Projection.

FREDERICKSBURG - Edition of 1894, reprinted 1930, contour interval 50 feet, Polyconic Projection.

HARPERS FERRY - Edition of 1893, reprinted 1930, contour interval 100 feet, Polyconic Projection.

NOMINI - Edition of 1898, reprinted 1923, contour interval 20 feet.

PATAPSCO - Edition of 1908, reprinted 1934, contour interval 20 feet, Polyconic Projection, North American Datum.

PATUXENT - Edition of 1906, reprinted 1934, contour interval 20 feet, Polyconic Projection.

ST. MARY'S - Edition of 1906, reprinted 1934, contour interval 20 feet, Polyconic Projection.

TOLCHESTER - Edition of 1908, reprinted 1934, contour interval 20 feet, Polyconic Projection.

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One mile scale (1:62,500), Datum is mean Sea Level:

ACCIDENT - Edition of 1900, reprinted 1933, contour interval 20 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system B.

ANNAPOLIS - Edition of 1904, reprinted 1930, contour interval 10 and 20 feet, Polyconic Projection, North American Datum.

ANTIETAM - Edition of 1910, reprinted 1930, contour interval 20 feet, Polyconic Projection, North American Datum.

BALTIMORE - Edition of 1904, reprinted 1924, contour interval 20 feet, Polyconic Projection, North American Datum

BARCLAY - Edition of 1905, reprinted 1924, contour interval 10 feet, Polyconic Projection, North American Datum.

BELAIR - Edition of 1901, reprinted 1929, contour interval 20 feet, Polyconic Projection, North American Datum.

BETTERTON - Edition of 1900, reprinted 1931, contour interval 20 feet, Polyconic Projection.

BLOODSWORTH ISLAND - Edition of 1903, reprinted 1927, no contours, Polyconic Projection, North American Datum.

BRANDYWINE - Edition of 1913, reprinted 1932, contour interval 20 feet, Polyconic Projection.

CECILTON - Edition of 1900, reprinted 1934, contour interval 20 feet, Polyconic Projection, North American Datum.

CHESTERTOWN - Edition of 1901, reprinted 1931, contour interval 20 feet, Polyconic Projection.

CRAPO - Edition of 1905, reprinted 1934, contour interval 10 feet, Polyconic Projection, North American Datum.

CRISFIELD - Edition of 1903, reprinted 1920, no contours.

DAVIS - Edition of 1921, contour interval 50 feet, Polyconic Projection, North American Datum.

DEAL ISLAND - Edition of 1903, reprinted 1927, contour interval 10 feet, Polyconic Projection, North American Datum.

DENTON - Edition of 1905, reprinted 1927, contour interval 10 feet, Polyconic Projection, North American Datum.

DRUM POINT - Edition of 1905, reprinted 1928, contour interval 20 feet, Polyconic Projection, North American Datum.

ELK GARDEN - Edition of 1922, contour interval 50 feet, Polyconic Projection, North American Datum.

ELLICOTT - Edition of 1906, reprinted 1926, contour interval 20 feet, Polyconic Projection, North American Datum.

ELKTON - Edition of 1900, reprinted 1932, contour interval 20 feet, Polyconic Projection, North American Datum.

EMMITSBURG - Edition of 1911, reprinted 1924, contour interval 20 feet, Polyconic Projection, North American Datum.

EWELL - Edition of 1917, contour interval 10 feet on land and 5, 10, and 20 feet off shore.

FLINTSTONE - Edition of 1900, reprinted 1922, contour interval 20 feet.

FREDERICK - Edition of 1909, reprinted 1931, contour interval 20 feet, Polyconic Projection, North American Datum.

FROSTBURG - Edition of 1908, reprinted 1932, contour interval 20 feet, Polyconic Projection.

GRANTSVILLE - Edition of 1904, reprinted 1927, contour interval 20 feet, Polyconic Projection, North American Datum.

GREEN RUN - Edition of 1901, reprinted 1934, contour interval 10 feet, Polyconic Projection.

GUNPOWDER - Edition of 1901, reprinted 1930, contour interval 20 feet, Polyconic Projection, North American Datum.

HAGERSTOWN - Edition of 1912, reprinted 1928, contour interval 20 feet, Polyconic Projection, North American Datum.

HANCOCK - Edition of 1901, reprinted 1928, contour interval 20 feet, Polyconic Projection, North American Datum.

HARRINGTON - Edition of 1918, contour interval 10 feet.

HAVRE DE GRACE - Edition of 1900, reprinted 1931, contour interval 20 feet, Polyconic Projection.

HEALTHSVILLE - Edition of 1917, contour interval on land 10 and 20 feet changing on 20 foot contour, contours off shore at depths of 5, 10, and 20 feet.

HURLOCK - Edition of 1905, reprinted 1928, contour interval 10 feet, Polyconic Projection, North American Datum.

INDIAN HEAD - Edition of 1925, reprinted 1934, contour interval 20 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system B.

INDIAN HEAD - Advance sheet only, scale 1:48,000, contour interval 20 feet, under water contours at depths 5, 10, 20, 30, 40 and 60 feet below mean low water, Polyconic Projection, North American Datum, 5,000 yard grid based on U. S. zone system B.

KEYSER - Edition of 1922, contour interval 50 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon zone B.P.M.M.

LAUREL - Edition of 1926, reprinted 1932, contour interval 20 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system A.

LEONARDTOWN - Edition of 1901, reprinted 1933, contour interval 20 feet, Polyconic Projection.

LEONARDTOWN - Advance sheet only, scale 1:48,000, contour interval 20 feet, 10 feet contour added in dashed line, Polyconic Projection, North American Datum.

MARTINSBURG - Edition of 1916, reprinted 1926, contour interval 20 feet, Polyconic Projection, North American Datum.

MOUNT AIRY - Edition of 1909, reprinted 1925, contour interval 20 feet, Polyconic Projection, North American Datum.

NANJEMOY - Edition of 1913, contour interval 20 feet.

NANTICOKE - Edition of 1903, reprinted 1922, contour interval 10 feet.

NORTH POINT - Edition of 1904, reprinted 1935, contour interval 20 feet, Polyconic Projection, North American Datum.

OAKLAND - Edition of 1900, reprinted 1921, contour interval 20 feet, Polyconic Projection, North American Datum.

OCEAN CITY - Edition of 1901, reprinted 1921, contour interval 10 feet.

OWENSVILLE - Edition of 1905, reprinted 1936, contour interval 20 feet, Polyconic Projection, 5,000 yard grid based upon U. S. zone system A.

OXFORD - Edition of 1904, reprinted 1927, contour interval 10 feet, Polyconic Projection, North American Datum.

PARKTON - Edition of 1902, reprinted 1927, contour interval 20 feet, Polyconic Projection, North American Datum.

PAW PAW - Edition of 1900, corrected 1910, reprinted 1929, contour interval 20 feet, Polyconic Projection, North American Datum.

PINEY POINT - Edition of 1901, reprinted 1927, contour interval 20 feet, Polyconic Projection, North American Datum.

PITTSVILLE - Edition of 1902, reprinted 1914, contour interval 10 feet.

POINT LOOKOUT - Edition of 1912, reprinted 1932, contour interval 20 feet, Polyconic Projection.

PRINCE FREDERICK - Edition of 1910, reprinted 1931, contour interval 20 feet, Polyconic Projection.

PRINCE FREDERICK - Advance sheet only, scale 1:48,000, contour interval 20 feet, 10 foot contour added in dashed line, Polyconic Projection, North American Datum.

PRINCESS ANNE - Edition of 1901, reprinted 1934, contour interval 10 feet, Polyconic Projection.

QUANTICO - Edition of 1927, contour interval 20 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system B.

RELAY - Edition of 1907, reprinted 1931, contour interval 20 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system A.

ROCKVILLE - Edition of 1923, reprinted 1928, contour interval 20 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system B.

SALISBURY - Edition of 1901, reprinted 1934, contour interval 10 feet, Polyconic Projection, North American Datum.

SEAFORD - Edition of 1915, contour interval 10 feet.

SENECA - Edition of 1908, reprinted 1932, contour interval 20 feet, Polyconic Projection, North American Datum.

SHARPS ISLAND - Edition of 1904, reprinted 1930, contour interval 10 feet, Polyconic Projection, North American Datum.

SNOW HILL - Edition of 1901, reprinted 1934, contour interval 10 feet, Polyconic Projection.

ST. MICHAELS - Edition of 1904, reprinted 1923, contour interval 10 feet, Polyconic Projection, North American Datum.

TANEYTOWN - Edition of 1911, reprinted 1932, contour interval 20 feet, Polyconic Projection, North American Datum.

UPPER MARLBORO - Advance sheet only, scale 1:48,000, contour interval 20 feet, 10 foot contour added in dashed line, Polyconic Projection, North American Datum.

WAKEFIELD - Edition of 1932, contour interval 20 feet with 10 foot contour added on Virginia part, Polyconic Projection, North American Datum, 5,000 yard grid based upon. U. S. zone system A.

WESTMINSTER - Edition of 1905, reprinted 1924, contour interval 20 feet, Polyconic Projection, North American Datum.

WICOMICO - Edition of 1914, reprinted 1922, contour interval 20 feet.

WILLIAMSPORT - Edition of 1912, reprinted 1924, contour interval 20 feet, Polyconic Projection, North American Datum.

WYOMING - Edition of 1931, contour interval 10 feet, Polyconic Projection, North American Datum, 5,000 yard grid based upon U. S. zone system. A.

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One-half mile scale (1:31,680) Datum is mean Sea Level, size 44x56 inches:

WASHINGTON AND VICINITY - Edition of 1929, reprinted 1932, contour interval 10 feet, Polyconic Projection.

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MARYLAND GEOLOGICAL SURVEY. Maps as designated, size, scale and other information follow each individual listing below:

ALLEGANY COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 43x23 inches, 1925.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 45x24 inches, 1910.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 52x27 inches, 1924.

ANNE ARUNDEL COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 34x49 inches, 1915.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 34x48 inches, 1913.

Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 34x48 inches, 1916.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 33x48 inches, 1931.

BALTIMORE COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 36x41 inches, 1919.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 41x49 inches, 1914.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 37x50 inches, 1925.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 41x49, 1924, partially revised 1932.

CALVERT COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 28x41 inches, 1902.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 23x41 inches, 1903.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 28x40 inches, 1932.

CAROLINE COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 10 feet, size 26x43 inches, 1916.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 26x43 inches, 1935.

CARROLL COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 32x30 inches, 1922.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 50 feet, size 38x36 inches, 1928.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 38x36 inches, 1937.

CECIL COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 31x35 inches, 1902.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 31x35 inches, 1902.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 31x35 inches, 1930.

CHARLES COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 40x39 inches, 1922.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 42x43 inches, 1914.

DORCHESTER COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 41x38 inches, 1926.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 40x53 inches, 1928.

FREDERICK COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 36x41 inches, 1925.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 53x40 inches, 1938.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, 1927, size 44x40 inches.

GARRETT COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 and 50 feet, size 34x39 inches, 1927.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 36x42 inches, 1913.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 36x43 inches, 1902.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, 1902, size 36x43 inches.

HARFORD COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 35x38 inches, 1905
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 35x37 inches, 1904.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 35x36 inches, 1930.

HOWARD COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 30x22 inches, 1920.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 40x27 inches, 1927.

KENT COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 36x35 inches, 1916.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 35x35 inches, 1910.
Forest Areas By Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 36x35 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 36x35 inches, 1929.

MONTGOMERY COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 39x33 inches, 1916.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 41x48 inches, 1927.

PRINCE GEORGE'S COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 33x47 inches, 1913.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 33x47 inches, 1913.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 33x47 inches, 1911.
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 33x48 inches, 1936.

QUEEN ANNE'S COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 45x36 inches, 1916.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 10 feet, size 45x36 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 45x36 inches, 1935.

ST MARY'S COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 35x37 inches, 1929.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 20 feet, size 36x42 inches, 1903.
Topography and Election Districts- Scale 1:62,500 contour interval 20 feet, size 36x41 inches, 1929.

SOMERSET COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 34x37 inches, 1925.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 35x39 inches, 1906.

TALBOT COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 10 feet, size 40x33 inches, 1916.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Geological Formations - Scale 1:62,500, contour interval 10 feet, size 40x34 inches, 1916.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 40x33 inches, 1926.

WASHINGTON COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 20 feet, size 51x35 inches, 1920.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 20 feet, size 52x34 inches, 1913.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915
Topography and Election Districts - Scale 1:62,500, contour interval 20 feet, size 52x34 inches, 1931.

WICOMICO COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 10 feet, size 38x29 inches, 1925.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 39x30 inches, 1905.

WORCESTER COUNTY

Agricultural Soils - Scale 1:62,500, contour interval 10 feet, size 38x35 inches, 1929.
Forest Areas by Commercial Types - Scale 1:62,500, contour interval 10 feet, size 36x37 inches, 1905.
Forest Areas by Commercial Types - Scale 1:187,500, size 11x14 inches, 1915.
Topography and Election Districts - Scale 1:62,500, contour interval 10 feet, size 38x36 inches, 1935.

BALTIMORE CITY

Map - Showing original shore lines and drainage, scale 1 inch = 2,000 feet, size 28x35 inches, 1935.
Map - Showing amount of overburden covering the underlying rocks, scale 1 inch = 2,000 feet, size 28x35 inches, 1935.
Map - Showing configuration of underlying rock floor, scale 1 inch = 2,000 feet, size 28x35 inches, 1935.
Map - Showing property outlines, etc., 4 sheets, scale 1 inch = 1,000 contour interval 20 feet, each sheet size 24x31 inches, 1912-1913-1914-1915.
Map - Showing proposed enlargements of Baltimore City, scale 1 mile = 1 inch, size 26x20 inches, 1916.

OTHER URBAN MAPS

Dundalk - Showing property outlines, etc., scale 1 inch = 1,000 feet, contour interval 20 feet, size 24x30 inches, 1918.
Sparrows Point - Showing property outlines, etc., scale 1 inch = 1,000 feet, contour interval 20 feet, size 24x30 inches, 1917.
Hagerstown - Showing property outlines, etc., scale 1 inch = 1,000 feet, contour interval 20 feet, size 29x31 inches, 1927.
Baltimore and vicinity - Topographic map showing route through Baltimore for Washington and Camp Meade, scale 1:125,000, contour interval 20 feet, size 24x28 inches, 1918.

STATE OF MARYLAND

Map - Scale 6 miles = 1 inch, size 44x26 inches.
Map - Scale 8 miles = 1 inch, size 35x21 inches, 1913.
Map - Scale 8 miles = 1 inch, size 35x21 inches, 1932.
Map - Scale 20 miles = 1 inch, size 16x11 inches, 1913.
Map - Size 12x9½ inches.
Map - Size 15x11 inches.
Map - Scale 1:187,500, 3 sections, size each section 32x52 inches, 1907.
Map - Scale 1:187,500, 3 sections, counties in color size each section 32x52 inches, 1907.
Map - Showing highways, steam and electric railroads and steamboat lines in color, scale 1 inch = 5 miles, size 52x36 inches, 1920.
Map - Showing highways, steam and electric railroads and steamboat lines, base map, scale 1 inch = 5 miles, size 52x36 inches, 1920.
Map - Showing conditions of roads to date, special listing, scale 1 inch = 5 miles, size 52x36 inches, 1910.
Map - Showing surface elevations, scale 6 miles = 1 inch, size 44x26 inches, 1935.
Map - Showing geological formations, scale 6 miles = 1 inch, size 44x26 inches, 1933.
Map - Showing political divisions, scale 6 miles = 1 inch, size 44x26 inches, 1935.
Map - Showing geological formations and soils, scale 8 miles = 1 inch, size 35x21 inches, 1907.
Map - Showing political divisions and election districts, scale 6 miles = 1 inch, size 44x26 inches, 1935.

STATES OF MARYLAND AND DELAWARE

Map - Showing average annual precipitation in inches, scale 1:500,000, size 35x22 inches, 1921.
Map - Showing average annual temperature in degrees Fahrenheit, scale 1:500,000, size 35x22 inches, 1921.
Map - Showing average number of days intervening between the date of last freezing temperature in spring and date of first freezing temperature in fall, scale 1:500,000, size 35x22 inches, 1921.

GEORGES CREEK

Map - Showing the location of mining properties and the areal extent of the Pittsburg ("Big Vein") and lower coals, scale 1:62,500, contour interval 20 feet, size 32x11 inches, 1905.

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UNIVERSITY OF MARYLAND, STATE DEPARTMENT OF FORESTRY - Map of Maryland showing Forested Area, scale 8 miles = 1 inch, size 34x21 inches, 1927.

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MARYLAND STATE ROADS COMMISSION county maps, in sections as shown, size each section 36x36 inches, scale 1 inch = ½ mile, tracings made from enlarged Maryland Geological Survey Topography and Election Districts sheets but not showing contours, printed on linen.

Allegany	in 3 sheets	Howard	in 3 sheets
Anne Arundel	in 4 sheets	Kent	in 3 sheets
Baltimore	in 4 sheets	Montgomery	in 4 sheets
Calvert	in 2 sheets	Prince George's	in 4 sheets
Caroline	in 3 sheets	Queen Anne's	in 4 sheets
Carroll	in 3 sheets	Somerset	in 4 sheets
Cecil	in 3 sheets	St. Mary's	in 4 sheets
Charles	in 4 sheets	Talbot	in 4 sheets
Dorchester	in 4 sheets	Washington	in 4 sheets
Frederick	in 4 sheets	Wicomico	in 4 sheets
Garrett	in 4 sheets	Worcester	in 4 sheets
Harford	in 4 sheets		

MARYLAND STATE ROADS COMMISSION IN COOPERATION WITH THE UNITED STATES DEPARTMENT OF AGRICULTURE, BUREAU OF PUBLIC ROADS DATA OBTAINED FROM STATEWIDE HIGHWAY PLANNING SURVEY.

PRELIMINARY PRINTS

Allegany County - Scale 1:62,500, Polyconic Projection, Base map, size 53½x36 inches, 1937.
Anne Arundel County - Scale 1:62,500, Polyconic Projection, Base map, size 36x50 inches, 1937.
Frederick County - Scale 1:62,500, Polyconic Projection, Base map, size 44x36 inches, 1937.
Garrett County - Scale 1:62,500, Polyconic Projection, Base map, size 36x52 inches, 1937.
Montgomery County - Scale 1:62,500, Polyconic Projection, Base map, size 60x36 inches, 1937.
Prince George's County - Scale 1:62,500, Polyconic Projection, Base map, size 36x52½ inches, 1937.
Washington County - Scale 1:62,500, Polyconic Projection, Base map, size 60x36 inches, 1937.

FINAL LITHOPRINTS

Calvert County - Scale 1:62,500, Polyconic Projection, Base map, size 32x36 inches, 1937.
Caroline County - Scale 1:62,500, Polyconic Projection, Base map, size 36x44 inches, 1937.

Carroll County - Scale 1:62,500, Polyconic Projection, Base map, size 49x36 inches, 1937.
Cecil County - Scale 1:62,500, Polyconic Projection, Base map, size 46x36 inches, 1937.
Charles County - Scale 1:62,500, Polyconic Projection, General Highway map, size 57x36 inches, 1937.
Dorchester County - Scale 1:62,500, Polyconic Projection, Base map, size 36x55 inches, 1937.
Howard County - Scale 1:62,500, Polyconic Projection, Base map, size 36x36 inches, 1937
Kent County - Scale 1:62,500, Polyconic Projection, Base map, size 41x36 inches, 1937.
Queen Anne's County - Scale 1:62,500, Polyconic Projection, Base map, size 50x36 inches, 1937.
Somerset County - Scale 1:62,500, Polyconic Projection, Base map, size 51x36 inches, 1937.
St. Mary's County - Scale 1:62,500, Polyconic Projection, Base map, size 36x36 inches, 1937.
Talbot County - Scale 1:62,500, Polyconic Projection, Base map, size 44x36 inches, 1937.
Wicomico County - Scale 1:62,500, Polyconic Projection, Base map, size 45x36 inches, 1937.
Worcester County - Scale 1:62,500, Polyconic Projection, General Highway map, size 46x36 inches, 1937.

State of Maryland - Traffic Flow Map, Total and Foreign Traffic, size 30x18 inches, 1937.
Baltimore and Washington Metropolitan Areas - Traffic Flow Map, Total and Foreign Traffic, size 38x18 inches, 1937.

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BUREAU OF PLANS AND SURVEYS, BALTIMORE CITY, Maps as designated, scale one inch equals 200 feet.

Topography - 38 sheets covering the old city, size 30x32 inches, 1894.
Atlas Sheets - 34 sheets covering the old city, size 34x44 inches, 1914.
Index Sheet - Scale 1 inch = 1000 feet, size 34x44 inches, for all of the sheets.

Note: The sheets covering the new annex are not yet published, but prints of the working tracings may be acquired, the index of these tracings is mounted and on file.

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PENNSYLVANIA WATER & POWER COMPANY, photostat index sheets of aerial survey made by Fairchild Aerial Survey Incorporated.

Index to exposures - Baltimore to Washington Area.
Index to exposures - Baltimore to Pennsylvania line area.

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DEPARTMENT OF COMMERCE, UNITED STATES COAST AND GEODETIC SURVEY

geographic positions of the triangulation stations in Maryland, on 175 sheets listed below as to network locations.

Oblique Arc - 21 stations.
Eastern Oblique Arc - 8 stations.
Eastern Oblique Arc and 39° parallel - 9 stations.
Pittsburg Arc - 13 stations.
Providence, R. I. to Norfolk, Virginia - 12 stations.
Cape May, N. J. to Norfolk, Virginia - 56 stations.
Maryland-Virginia Boundary to Ocean City - 15 stations.
Washington, D. C. to Freeland, Maryland - 127 stations.
Delaware-Pennsylvania Circular Boundary - 87 stations.
James River, Va. to Washington, D. C. - 44 stations.
Back River - 25 stations.
Potomac River - 74 stations.
Washington, D. C. and Vicinity - 52 stations.
Chesapeake Bay - 34 stations.
Severn River - 17 stations.
Gunpowder and Middle Rivers - 15 stations.
Vicinity of Washington, D. C. - 25 stations.
Crisfield to Elkton - 129 stations.
Potomac River, Fort Humphreys to Washington - 81 stations.
Maryland and Virginia Coast - 37 stations.
Chesapeake Bay - Elk River - 18 stations.
Elk River - 25 stations.
Chesapeake Bay, vicinity of Annapolis - 29 stations.
Patapsco River (Chesapeake Bay) - 18 stations.
Baltimore and Vicinity - 8 stations.
Fort Humphreys to Upper Cedar Point - 76 stations.
Vicinity of Miller Island, Chesapeake Bay - 6 stations.
North East River - 4 stations.
Mouth of Severn River - 5 stations.
Baltimore County and Metropolitan District - 47 stations.

A photo print of a map of the States of Maryland and Delaware, scale 8 miles = 1 inch, size 35x21 inches, showing graphically the network of the triangulation.

Also the plane coordinates for 104 of the above geographic positions.

* * *

NAUTICAL CHARTS

77 - Chesapeake Bay, northern part, approximate scale 1:200,000, size 35x37 inches, Nautical mile = .061 inches and Statute mile =.053 inches.

78 - Chesapeake Bay, southern part, approximate scale 1:200,000, size 34x33 inches, Nautical mile = .061 inches and Statute mile = .053 inches.

539 - Patuxent River, scale 1:40,000, size 33x39 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

545 - Baltimore Harbor, scale 1:15,000, size 43x33 inches, Nautical mile = 4.864 inches and Statute mile = 4.224 inches.

548 - Chester River, scale 1:40,000, size 36x35 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

549 - Approaches to Baltimore Harbor, scale 1:40,000, size 41x35 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

557 - Potomac River, entrance to Piney Point, scale 1:40,000, size 35x42 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

558 - Potomac River, Piney Point to Lower Cedar Point, scale 1:40,000, size 47x35 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

559 - Potomac River, Lower Cedar Point to Mattawoman Creek, scale 1:40,000, size 41x32 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

560 - Potomac River, Mattawoman Creek to Georgetown, scale 1:40,000, size 31x42 inches, Nautical mile = 1.824 inches and Statute mile = 1.584 inches.

Washington Harbor, scale 1:20,000, Nautircal mile = 3.648 inches and Statute mile = 3.168 inches.

566 - Chesapeake Bay - Thomas Point to Sandy Point, scale 1:20,000, size 34x36 inches, Nautical mile = 3.648 inches and Statute mile = 3.168 inches.

567 - Wicomico River, scale 1:20,000, size 46x36 inches, Nautical mile = 3.648 inches and Statute mile = 3.168 inches

1220 - Fenwick Island Light to Chincoteaque Inlet, scale 1;80,000, size 35x41 inches, Nautical mile = .912 inches and Statute mile = .792 inches.

1221 - Chincoteaque Inlet to Hog Island Light, scale 1:80,000, size 44x34 inches, Nautical mile = .912 inches and Statute mile = .792 inches.

1222 - Chesapeake Bay Entrance, scale 1:80,000, size 45x35 inches, Nautical mile = .912 inches and Statute mile = .792 inches.

1223 - Chesapeake Bay - Wolf Trap to Smith Point, scale 1:80,000,size 41x33, Nautical mile = .912 inches and Statute mile = .792 inches.

1224 - Chesapeake Bay - Smith Point to Cove Point, scale 1:80,000, size 43x33 inches, Nautical mile = .912 inches and Statute mile = .792 inches.

1225 - Chesapeake Bay - Cove Point to Sandy Point, scale 1:80,000, 1:80,000, size 36x40 inches, Nautical mile = .912 inches and Statute mile = .792 inches.

1226 - Chesapeake Bay - Sandy Point to Head of Bay, scale 1:80,000, size 40x35, Nautical mile = .912 inches and Statute mile = .792 inches.

Back Creek, scale 1:20,000, Nautical mile = 3.648 inches and Statute mile = 3.168 inches.

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REGIONAL AERONAUTICAL CHARTS

9M - Scale 1:1,000,000, size 44x31 inches, 1936.
10M - Scale 1:1,000,000, size 34x31 inches, 1936.

SECTIONAL AERONAUTICAL CHART

Washington - Size 35x25 inches, 1936.

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MAPS OF CITIES, TOWNS AND SUB-DIVISIONS

Baltimore- Scale 1 inch = 2,000 feet, size 28x34 inches, 1935.

ALLEGANY COUNTY

Bartor - Scale 1 inch = 100 feet, size 41x28 inches, tracing, 1922.
Cumberland - Scale 1 inch = 800 feet, size 24x30 inches, lithoprint, 1935.
Eckhart - Scale 1 inch = 500 feet, size 12x16 inches, tracing.
Frostburg - Scale 1 inch = 400 feet, size 28x24 inches, tracing, 1935.
Lonaconing - Scale 1 inch = 200 feet, size 10x18 inches, tracing.
Luke - Scale 1 inch = 300 feet, size 36x36 inches, tracing, 1924.
Midland - Scale 1 inch = 100 feet, size 30x28 inches, tracing, 1902.
Westernport - Scale 1 inch = 300 feet, size 36x36 inches, tracing, 1924.

ANNE ARUNDEL COUNTY

Annapolis - Scale 1 inch = 500 feet, size 28x28 inches, lithoprint, 1928.
Arundel Beach - Scale 1 inch = 200 feet, size 27x24 inches, blue print, 1908.
Avalon Shores - Scale 1 inch = 100 feet, size 15x16 inches, tracing, 1932.
Baltimore Highlands - Scale 1 inch = 200 feet, size 19x21 inches, blue print.
Beverly Beach - Scale 1 inch = 100 feet, size 26x43 inches, blue print, 1936.
Bodkin Plains - Scale 1 inch = 200 feet, size 26x44 inches, blue print, 1934.
Brooklyn Park, Subdivision No. 1 - Scale 1 inch = 100 feet, size 18x28 inches, tracing, 1916.
Brooklyn Park, Subdivision No. 3 - Scale 1 inch = 100 feet, size 28x24 inches, tracing, 1918.
Cape Anne - Scale 1 inch = 300 feet, size 9x13 inches, sales plat.
Cedarhurst on the Bay - Scale 1 inch = 100 feet, size 28x34 inches, blue print.
Eastport - Scale 1 inch = 200 feet, size 30x30 inches, blue print, 1929.
Fair Acres - Scale 1 inch = 100 feet, size 12x12 inches, blue print, 1935.
Ferndale - Scale 1 inch = 300 feet, two sheets, size 30x30 inches, blue prints, 1936.
Fort Severn - Scale 1 inch = 100 feet, size 40x36 inches, blue print, 1935.

Franklin Manor Beach - Scale 1 inch = 200 feet, size 32x24 inches, lithoprint, 1921.
Glenburnie - Scale 1 inch = 200 feet, two sheets, size 30x30 inches, blue prints, 1930.
Green Haven - Scale 1 inch = 400 feet, size 12x20 inches, sales plat.
Homewood - Scale 1 inch = 200 feet, size 30x30 inches, blue print, 1936.
Linthicum Heights - Scale 1 inch = 200 feet, two sheets, size 30x30 inches, blue prints, 1930.
Margate - Scale 1 inch = 200 feet, size 27x19 inches, blue print, 1929.
North Beach Park - Scale 1 inch = 100 feet, size 43x25 inches, blue print, 1926.
North Shore - Scale 1 inch = 100 feet, size 11x17 inches, electro print, 1933.
Pines-on-the-Severn - Scale 1 inch = 200 feet, size 30x30 inches, blue print, 1936.
Riviera Beach - Scale 1 inch = 200 feet, size 30x35 inches, black line print, 1924.
Roland Terrace, Plat A - Reduced scale, size 24x20 inches, tracing, 1920.
Roland Terrace, Plat B - Scale 1 inch = 100 feet, size 34x28 inches tracing, 1920.
Selby on the Bay - Scale 1 inch = 200 feet, size 27x22 inches, sales print.
Shoreacres - Scale 1 inch = 200 feet, size 24x33 inches, blue print, 1929.
Shoreland - Scale 1 inch = 100 feet, Plat A - size 39x20 inches, 1922.
Plat B - size 32x16 inches, 1933, blue prints.
Sunset Beach - Scale 1 inch = 100 feet, size 27x37 inches, blue print, 1929.
Truxton Heights - Scale 1 inch = 100 feet, size 30x22 inches, blue print, 1936.

BALTIMORE COUNTY

Aigburth - Scale 1 inch = 60 feet, size 19x22 inches, tracing. 1920.
Anneslie - Scale 1 inch = 100 feet, size 35x24 inches, tracing, 1916.
Arbutus - Scale 1 inch = 800 feet, size 34x24 inches, tracing.
Catonsville Knolls - Scale 1 inch = 100 feet, size 22x30 inches, tracing, 1922.
Catonsville Park - No scale, size 14x8 inches, tracing, 1927.
Chesaco Park - Scale 1 inch = 100 feet, size 36x19 inches, blue print, 1911.
Dunbarton - Scale 1 inch = 100 feet, size 32x28 inches, tracing, 1924.
Dundalk - Scale 1 inch = 200 feet, size 33x27 inches, lithoprint.
East Halethorpe - Scale 1 inch = 100 feet, size 14x18 inches, tracing, 1921.
East Sudbrook Park - Scale 1 inch = 60 feet, size 32x26 inches, blue print, 1926.
English Consul - Scale 1 inch = 400 feet, size 32x22 inches, tracing.
Fairlawn - Scale 1 inch = 100 feet, size 28x24 inches, tracing, 1917.
Franktown - Scale 1 inch = 100 feet, size 32x22 inches, tracing, 1913.
Gwynnlake Park - Scale 1 inch = 100 feet, size 24x20 inches, blue print, 1927.
Halethorpe - Scale 1 inch = 300 feet, size 17x15 inches, tracing.
Hazelwood Farms - Scale 1 inch = 100 feet, size 15x21 inches, blue print, 1919.
Holmhurst - Scale 1 inch = 80 feet, size 18x34 inches, tracing, 1922.
Idlewylde - Scale 1 inch = 100 feet, size 45x21 inches, blue print, revised, 1930.
Lansdowne - Scale 1 inch = 400 feet, size 32x22 inches, tracing.
Larchmont - Scale 1 inch = 100 feet, size 31x27 inches, tracing, 1921.

Lavender Hill - Scale 1 inch = 50 feet, size 32x18 inches, tracing, 1919.
Linganore - Scale 1 inch = 40 feet, size 36x20 inches, tracing.
Linhigh - Scale 1 inch = 100 feet, size 28x32 inches, tracing, 1923.
Long Beach Estates - Scale 1 inch = 200 feet, size 20x35 inches, blue print, 1910.
Lutherville and Luther Villa - Scale 1 inch = 200 feet, size 24x18 inches, photostat, 1924.
Maryland Manor - Scale 1 inch = 100 feet, size 22x26 inches, blue print, 1932.
Midriver Park - Scale 1 inch = 100 feet, size 26x13 inches, blue print, 1911.
Montrose Farms - Scale 1 inch = 100 feet, size 32x16 inches, blue print, revised 1926.
North Halethorpe - Scale 1 inch = 100 feet, size 22x18 inches, tracing, 1924.
Oak Park Addition - Scale 1 inch = 100 feet, size 18x36 inches, tracing, 1921.
Oak Ridge - Scale 1 inch = 100 feet, size 24x16 inches, tracing, 1922.
Parkville Summit - Scale 1 inch = 50 feet, size 35x33 inches, blue print, revised 1929.
Pasadena - Scale 1 inch = 100 feet, size 28x36 inches, tracing.
Pikesville - Scale 1 inch = 400 feet, size 24x21 inches, tracing, 1925.
Pinehurst - Scale 1 inch = 100 feet, size 18x22 inches, tracing, 1922.
Relay - Scale 1 inch = 800 feet, size 34x24 inches, tracing.
Ridge Brook - Scale 1 inch = 100 feet, size 22x16 inches, tracing, 1921.
Ridgewood - No scale, size 17x15 inches, sales plat, 1923.
Rosedale Gardens - Scale 1 inch = 100 feet, size 22x26 inches, blue print, 1920.
Rosedale Terraces - Scale 1 inch = 200 feet, size 23x34 inches, blue print, 1910.
Stoneleigh - Scale 1 inch = 100 feet reduced, size 15x11 inches, tracing, 1928.
Sudbrook Park - Scale 1 inch = 400 feet, size 24x21 inches, tracing, 1925.
Sulphur Spring Terrace - Scale 1 inch = 100 feet, size 18x19 inches, tracing, 1924.
Summit Park - Scale 1 inch = 100 feet, size 26x26 inches, tracing, 1919.
Towson - Scale 1 inch = 300 feet, size 33x22 inches, tracing, 1927.
Towson Manor - Scale 1 inch = 50 feet, size 34x22 inches, tracing.
Twin River Beach - Scale 1 inch = 100 feet, size 35x32 inches, blue print, 1929.
Whittamore Park,- Scale 1 inch = 60 feet, size 36x40 inches, tracing, 1922.

CALVERT COUNTY

Chesapeake Beach - Scale 1 inch = 1,000 feet, size 14x32 inches, tracing, 1933.
North Chesapeake Beach - No scale, size 28x33 inches, tracing, 1908.

CAROLINE COUNTY

Denton - Scale 1 inch = 100 feet, size 41x29 inches, blue print, 1920.
Federalsburg - Scale 1 inch - 200 feet, size 36x24 inches, black line print, 1933.

Greensboro - No scale, size 28x22 inches, tracing, 1915.
Hillsboro - Scale 1 inch = 200 feet, size 30x20 inches, blue print, 1920.
Preston - Scale 1 inch = 100 feet, size 21x15 inches, photostat, 1921.
Ridgely - Scale 1 inch = 160 feet, size 35x30 inches, black line print, 1927.

CARROLL COUNTY

Hampstead - Scale 1 inch = 200 feet, size 34x14 inches, tracing, 1933.
Manchester - Scale 1 inch = 200 feet, size 26x27 inches, tracing, 1934-5.
Mount Airy - Scale 1 inch = 300 feet, size 21x27 inches, tracing.
New Windsor - Scale 1 inch = 200 feet, size 22x18 inches, tracing.
Sykesville - Scale 1 inch = 200 feet, size 30x20 inches, blue print, 1920.
Taneytown - Scale 1 inch = 200 feet, size 24x24 inches, tracing.
Union Bridge - Scale 1 inch = 200 feet, size 24x24 inches, tracing.
Westminster - Scale 1 inch = 200 feet, size 55x33 inches, tracing.

CECIL COUNTY

Cardiff - Scale 1 inch = 200 feet, size 24x12 inches, tracing, 1934.
Cecilton - Scale 1 inch = 200 feet, size 21x17 inches, tracing.
Elkton - Scale 1 inch = 400 feet, size 31x20 inches, tracing, 1934.
Perryville - Scale 1 inch = 200 feet, size 32x23 inches, tracing, 1923.
Port Deposit - Scale 1 inch = 100 feet, size 42x36 inches, tracing, 1923.
Rising Sun - Scale 1 inch = 100 feet, size 58x56 inches, black line print, 1935.

CHARLES COUNTY

Indian Head - Scale 1 inch = 200 feet, size 28x18 inches, tracing, 1935.
La Plata - Scale 1 inch = 200 feet, size 24x28 inches, tracing.

DORCHESTER COUNTY

Cambridge - Scale 1 inch = 300 feet, size 38x34 inches, black line print.
East New Market - Scale 1 inch = 200 feet, size 29x18 inches, tracing, 1937.
Hurlock - Scale 1 inch = 200 feet, size 40x23 inches, black line print.
Secretary - Scale 1 inch = 120 feet, size 33x30 inches, black line print, 1927.
Vienna - Scale 1 inch = 100 feet, size 31x25 inches, tracing, 1933.

FREDERICK COUNTY

Brunswick - Scale 1 inch = 500 feet, size 23x17 inches, tracing.
Burkittsville - Scale 1 inch = 26-2/3 rods, size 10x12 inches, tracing.
Emmitsburg - Scale 1 inch = 300 feet, size 16x9 inches, tracing.
Frederick - Scale 1 inch = 400 feet, size 37x34 inches, photo print, 1928.
Mount Airy - Scale 1 inch = 300 feet, size 21x27 inches, tracing.
New Market - Scale 1 inch = 16 rods, size 16x9 inches, tracing.

Point of Rocks - Scale 1 inch = 165 feet, size 20x15 inches, tracing.
Thurmont - Scale 1 inch = 26-2/3 rods, size 15x17 inches, tracing.
Walkersville - Scale 1 inch = 500 feet, size 13x11 inches, tracing.
Woodsboro - Scale 1 inch = 16 rods, size 28x13 inches, tracing.

GARRETT COUNTY

Accident - No scale, size 17x15 inches, tracing.
Bloomington - Scale 1 inch = 300 feet, size 36x36 inches, tracing, 1924.
Friendsville - Scale 1 inch = 60 feet, size 49x29 inches, black line print, 1922.
Grantsville - Scale 1 inch = 200 feet, size 33x22 inches, blue print, 1935.
Kempton - Scale 1 inch = 100 feet, size 36x22 inches, tracing, 1918.
Kitzmiller - Scale 1 inch = 200 feet, size 9x11 inches, tracing.
Loch Lynn Heights - Scale 1 inch = 50 feet, size 20x16 inches, tracing.
Mountain Lake Park - No scale, size 10x12 inches, tracing.
Oakland - Scale 1 inch = 200 feet, size 31x26 inches, tracing.
Shellmar - Scale 1 inch = 100 feet, two sheets, size 37x24 inches, tracing, 1923.
Vindex - Scale 1 inch = 200 feet, size 42x18 inches, tracing, 1932.

HARFORD COUNTY

Aberdeen - Scale 1 inch = 300 feet, size 36x24 inches, blue print, 1919.
Abington Beach - Scale 1 inch = 150 feet, size 19x25 inches, blue print, 1926.
Bel Air - Scale 1 inch = 200 feet, size 41x34 inches, tracing.
Havre de Grace - Scale 1 inch = 300 feet, size 36x24 inches, black line print, 1935.

HOWARD COUNTY

Ellicott City - Scale 1 inch = 123-3/4 feet, size 49x31 inches, black line print, 1927.

KENT COUNTY

Betterton - Scale 1 inch = 100 feet, size 30x41 inches, tracing.
Chestertown - Scale 1 inch = 300 feet, size 20x19 inches, tracing, 1924.
Millington - Scale 1 inch = 200 feet, size 30x20 inches, blue print, 1916.
Rock Hall - Scale 1 inch = 200 feet, size 36x25 inches, black line print, 1922.

MONTGOMERY COUNTY

Gaithersburg - Scale 1 inch = 600 feet, size 25x15 inches, tracing.
Rockville - Scale 1 inch = 200 feet, size 40x24 inches, blue print, 1932.
Washington Grove - Scale 1 inch = 600 feet, size 25x15 inches, tracing.

PRINCE GEORGE'S COUNTY

Accokeek Acres.- Scale 1 inch = 200 feet, size 24x18 inches, black line print, 1935.
Ammendale - Scale 1 inch = 300 feet, size 28x20 inches, black line print.
Andre Subdivision - Scale 1 inch = 100 feet, size 25x18 inches, black line print, 1937.
Ardmore - Scale 1 inch = 200 feet, size 18x10 inches, tracing, 1908.
Ardwick, First Addition - Scale 1 inch = 100 feet, size 27x10 inches, black line print.
Ardwick Park, Sec. 2 - Scale 1 inch = 150 feet, size 9x16 inches, tracing.
Beaver Heights - Scale 1 inch = 100 feet, size 16x14 inches, tracing, 1935.
- Scale 1 inch = 100 feet, size 24x19 inches, tracing, 1926.
- Scale 1 inch = 40 feet, size 18x24 inches, black line print, 1931.
Behrend Heights - Scale 1 inch = 50 feet, size 24x19 inches, black line print, 1932.
Bel-Mar - Scale 1 inch = 100 feet, size 24x19 inches, tracing, 1925.
Beltsville Heights.- Scale 1 inch = 100 feet, size 32x48 inches, tracing, 1920.
Beltsville, Sec. 3 - No scale, size 24x20 inches, black line print.
Berwyn Heights - Scale 1 inch = 200 feet, size 28x34 inches, tracing.
Bird Lawn - Scale 1 inch = 300 feet, size 19x24 inches, black line print.
- No scale, size 18x24 inches, black line print, 1934.
Bladensburg - No scale, size 25x20 inches, black line print.
Blenheim, Section One - Scale 1 inch = 100 feet, size 24x18 inches, black line print, 1927.
Boulevard Heights - No scale, size 17x20 inches, tracing.
Bowie - Scale 1 inch = 200 feet, size 42x30 inches, black line print, 1937.
Bradbury Heights - No scale, size 26x26 inches, tracing, 1909.
Bradbury Property, Subdivision No. 1 - Scale 1 inch = 50 feet, size 18x24 inches, black line print, 1929.
Bradmoor - Scale 1 inch = 50 feet, size 24x18 inches, black line print, 1935.
Branchville - No scale, size 39x19 inches, white print.
Buena Vista - Scale 1 inch = 75 feet, size 9x13 inches, black line print.
Capital View - Scale 1 inch = 100 feet, size 25x10 inches, tracing.
Capitol Heights - Scale 1 inch = 100 feet, size 32x44 inches, tracing, 1904.
Carmody Hills - Scale 1 inch = 100 feet, size 27x23 inches, tracing.
Cedar Haven, Section Two - Scale 1 inch = 100 feet, size 16x16 inches, black line print, 1927.
Cedar Heights - No scale, size 20x24 inches, tracing, 1906.
Cheverly Gardens - No scale, size 25x16 inches, black line print.
Chillum Gardens - Scale 1 inch = 60 feet, size 25x18 inches, black line print, 1935.
Clearview - Scale 1 inch = 60 feet, size 24x19 inches, black line print, 1936.
- Scale 1 inch = 50 feet, two sheets, sections A & B, size 24x19 inches, black line prints, 1936.

College Heights Estates - No scale, size 14x9 inches, sales print.
College Heights, Resubdivision - Scale 1 inch = 50 feet, size 19x24 inches, black line print, 1935.
College Park - Scale 1 inch = 200 feet, size 30x22 inches, blue print.
College Park and Campus - Scale 1 inch = 400 feet, size 19x13 inches, blue print, 1931.
Colmar Manor, First Addition - Scale 1 inch = 100 feet, size 24x20 inches, black line print.
Community Farms - No scale, size 21x17 inches, tracing.
Coral Hills - Scale 1 inch = 100 feet, size 24x18 inches, black line print, 1936.
Dearwood Park - No scale, size 24x19 inches, black line print, 1927.
Deer Park - Scale 1 inch = 100 feet, size 23x19 inches, tracing, 1936.
District Heights - Scale 1 inch = 100 feet, three sheets, size 18x24 inches, black line prints.
Dixie Dale - No scale, size 14x20 inches, tracing.
East Columbia Park - Scale 1 inch = 100 feet, size 26x19 inches, tracing, 1924.
Edmonston - No scale, size 24x19 inches, black line print.
Elk Grove - Scale 1 inch = 100 feet, size 24x18 inches, black line print, 1926.
Fairlawn - Scale 1 inch = 150 feet, size 15x20 inches, black line print.
Greater Capitol Heights - Scale 1 inch = 100 feet, size 30x25 inches, tracing, 1909.
Green Manor - Scale 1 inch = 50 feet, size 25x19 inches, black line print, 1935.
Glendale - Scale 1 inch = 160 feet, size 36x19 inches, black line print.
Good Hope Hills - No scale, size 36x19 inches, black line print.
Hampshire Heights - Scale 1 inch = 60 feet, size 24x18 inches, black line print, 1935.
Highland Park, Section Two - Scale 1 inch = 50 feet, size 18x22 inches, black line print, 1925.
Hitt's First Addition to Parkland - Scale 1 inch = 80 feet, size 24x18 inches, black line print, 1936.
Home Acres - Scale 1 inch = 100 feet, two sheets, Sections 1 & 2, size 24x19 inches, black line prints, 1936.
Huntsville - Scale 1 inch = 60 feet, size 12x18 inches, black line print.
Johnson's Subdivision - No scale, size 18x13 inches, tracing, 1911.
Joseph's Manor - Scale 1 inch = 100 feet, size 23x17 inches, black line print, 1936.
Knollwood - Scale 1 inch = 100 feet, size 18x24 inches, tracing, 1924.
Landover Hills - Scale 1 inch = 200 feet, size 24x19 inches, black line print, 1936.
Landover Park - No scale, size 16x11 inches, tracing.
Laurel - Scale 1 inch = 300 feet, size 32x21 inches, tracing, 1926.
Laurel Park - Scale 1 inch = 100 feet, size 13x14 inches, black line print.
Lenox - No scale, size 14x12 inches, tracing, 1920.
Lincoln - Scale 1 inch = 150 feet, size 26x30 inches, tracing.
Lincoln, Chautauqua Section - Scale 1 inch = 100 feet, size 17x24 inches black line print, 1930.

Littleworth - No scale, size 24x18 inches, black line print.
Lyndon Hill - Scale 1 inch = 50 feet, size 17x23 inches, black line print, 1936.
Magnolia Springs - Scale 1 inch = 200 feet, size 20x19 inches, black line print, 1927.
Marlboro Heights - No scale, size 24x19 inches, black line print, 1934.
Marlboro Pike - Scale 1 inch = 200 feet, two sheets, size 34x16 inches, tracings.
Martin's Woods - Scale 1 inch = 100 feet, size 25x20 inches, black line print, 1937.
Middleton Farm - Scale 1 inch = 300 feet, size 16x17 inches, black line print, 1937.
Moyer's Park - Scale 1 inch = 80 feet, size 18x25 inches, tracing, 1924.
Navy Day Subdivision - Scale 1 inch = 100 feet, size 25x19 inches, black line print, 1936.
North Kenilworth - No scale, size 14x20 inches, tracing.
North Woodridge - Scale 1 inch = 100 feet, size 18x24 inches, black line print, 1934.
- Scale 1 inch = 50 feet, size 19x25 inches, black line print, 1936.
Oak Lawn - No scale, size 24x19 inches, black line print, 1936.
Palmar - Scale 1 inch = 100 feet, size 17x24 inches, black line print, 1919.
Parkland - Scale 1 inch = 100 feet, size 16x14 inches, tracing, 1925.
Riverdale, Gretta Addition, Section No. 1 - Scale 1 inch = 100 feet, size 20x23 inches, tracing.
Riverdale Heights - Scale 1 inch = 100 feet, size 26x34 inches, tracing, 1919.
Riverdale Park - Scale 1 inch = 200 feet, size 35x30 inches, tracing, 1904.
Riverdale Park, Resubdivision - Scale 1 inch = 60 feet, size 18x24 inches, black line print, 1937.
Rogers Heights - Scale 1 inch = 100 feet, size 21x16 inches, tracing, 1922.
Seabrook - Scale 1 inch = 200 feet, size 36x31 inches, black line print.
Seabrook Acres - Scale 1 inch = 100 feet, size 18x24 inches, black line print, 1936.
Seat Pleasant - No scale, size 25x33 inches, blue print.
Sherman Park - No scale, size 29x15 inches, tracing.
Sherwood - Scale 1 inch = 100 feet, size 24x18 inches, black line print, 1937.
Shields Addition to Ducat Town - Scale 1 inch = 40 feet, size 25x19 inches, black line print, 1936.
Silver Hill Heights - Scale 1 inch = 100 feet, size 19x11 inches, black line print, 1933.
Silver Hill Park - Scale 1 inch - 100 feet, size 22x14 inches, black line print.
South Laurel - Scale 1 inch = 100 feet, size 20x23 inches, tracing.
Spaulding Heights - Scale 1 inch = 100 feet, size 18x24 inches, black line print.
Springbrook Terrace - Scale 1 inch = 50 feet, size 18x23 inches, black line print, 1936.

Sunnyside - Scale 1 inch = 100 feet, size 20x18 inches, tracing, 1925.
Sycamore Beach - Scale 1 inch = 100 feet, size 24x14 inches, black line print, 1926.
Sylvan Vista - Scale 1 inch = 100 feet, size 25x17 inches, tracing, 1923.
Townsend Subdivision - No scale, size 24x18 inches, black line print, 1935.
West Cheverly - Scale 1 inch = 50 feet, size 24x18 inches, black line print.
White House Heights - No scale, size 24x18 inches, tracing, 1908.
Woodlawn, Section 1 - Scale 1 inch = 100 feet, size 16x22 inches, black line print, 1927.

QUEEN ANNE'S COUNTY

Centerville - Scale 1 inch = 200 feet, size 33x25 inches, blue print, 1933.
Church Hill - Scale 1 inch = 200 feet, size 30x21 inches, blue print, 1927.
Queen Anne - Scale 1 inch = 200 feet, size 30x21 inches, blue print, 1920.
Queenstown - No scale, size 22x16 inches, tracing, 1936.

SOMERSET COUNTY

Crisfield - Scale 1 inch = 300 feet, size 36x24 inches, black line print.
Princess Anne - Scale 1 inch = 200 feet, size 36x24 inches, black line print.

ST. MARY'S COUNTY

Pine Point Shores - Scale 1 inch = 100 feet, size 30x22 inches, blue print, 1926.

TALBOT COUNTY

Easton - Scale 1 inch = 300 feet, size 22x26 inches, lithoprint, 1929.
Oxford - Scale 1 inch = 200 feet, size 30x20 inches, tracing, 1927.
St. Michaels - Scale 1 inch = 200 feet, size 33x30 inches, black line print, 1927.
Trappe - Scale 1 inch = 200 feet, size 30x20 inches, 1933.

WASHINGTON COUNTY

Boonsboro - Scale 1 inch = 200 feet, size 14x18 inches, tracing, 1924.
Clear Spring - Scale 1 inch = 200 feet, size 30x20 inches, blue print, 1920.
Funkstown - Scale 1 inch = 100 feet, size 44x34 inches, tracing, 1924.
Hagerstown - Scale 1 inch = 600 feet, size 36x24 inches, lithoprint, Copyright, 1936.
Hancock - Scale 1 inch = 160 feet, size 36x18 inches, tracing, 1913.
Sharpsburg - Scale 1 inch = 200 feet, size 24x16 inches, tracing, 1936.
Smithsburg - Scale 1 inch = 200 feet, size 41x30 inches, blue print, 1919.
Williamsport - Scale 1 inch = 200 feet, size 36x24 inches, blue print, 1934.

WICOMICO COUNTY

Delmar - No scale, size 36x24 inches, black line print.
Mardela Springs - Scale 1 inch = 100 feet, size 42x32 inches, black line print.
Salisbury - Scale 1 inch = 1,000 feet, size 17x18 inches, lithoprint.
Sharptown - Scale 1 inch = 100 feet, size 35x24 inches, black line print, 1935.

WORCESTER COUNTY

Berlin - Scale 1 inch = 200 feet, size 33x30 inches, black line print, 1927.
Ocean City - Scale 1 inch = 280 feet, size 33x30 inches, black line print, 1927.
Pocomoke City - Scale 1 inch = 200 feet, size 30x35 inches, black line print, 1931.
Snow Hill - Scale 1 inch = 532 feet, size 14x14 inches, tracing, 1912.

Note: No scale may refer either to a map on which there is no scale shown or to a tracing that has been made from a photostatic print.

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MISCELLANEOUS

Hagerstown Municipal Airport - Scale 1 inch = 200 feet, size 30x21 inches, blue print.
Prettyboy Dam Land Record Index Sheet - Scale 1 inch = 2,000 feet, size 29x19 inches, whiteprint, 1931.
Loch Raven Dam Land Record Index Sheet - Scale 1 inch = 1 mile, size 29x19 inches, white print, 1935.
Aerial Photographic Index Map of Washington Boulevard - Scale 1 inch = 1 mile, size 24x19 inches, white print, 1927.
Soil Conservation Service, Map showing Patapsco River Watershed - Area to be photographed - Scale 1 inch = 1 mile, size 15x10½ inches, white print, 1936.
Soil Conservation Service, Map showing Catoctin Creek Watershed - Area to be photographed - Scale 1 inch = 1 mile, size 15x29 inches, white print, 1936.
Soil Conservation Service, Map showing Demonstration Area, Beltsville - Scale 1 inch = 1 mile, size 30x24 inches, white print, 1936.
Map of Greater Washington - Scale 1 inch = 1/2 mile, size 35x30 inches, lithoprint.
Baltimore Municipal Airport - Scale 1 inch = 400 feet, two sheets, size 23x11 inches, white prints, 1931.
Logan Field Airport - Scale 1 inch = 300 feet, size 22x17 inches, white print, 1936.
Map of Maryland and Delaware - The Federal Aid Highway System - Scale 1 inch = 7.891 miles, size 31x21½ inches, lithoprint in colors, 1935.

Map of Baltimore-Washington-Annapolis Region, Maryland State Planning Commission, Sub-Committee for region - Scale 1 inch = 1 mile in two sections, total size 60x60 inches, lithoprints, 1936. Also reduced print of same, scale 1 inch = 2 miles, size 30x30 inches.

Iowa Transportation Map, Bureau of Public Roads - Scale approximately 1 inch = 4 miles, in 8 sheets, size each sheet 36x26 inches, lithoprints in colors, 1934.

Annapolis Metropolitan Sewerage District - Scale 1 inch = 400 feet, size 36x52 inches, black line print, 1931.

Map of Baltimore and Suburbs - Scale 1 inch = 2,500 feet, size 41x55 inches, white print, 1931.

Maryland Transportation Map, Bureau of Public Roads - Scale 1 inch = 4 miles, three sheets, size 36x26 inches, lithoprints in colors, 1937.

Geologic Map of Virginia - Scale 1:500,000, size 64x34 inches, engraved in colors, 1928.

Atlas - 15 miles around Washington including Prince George's County, 90 pages, C. M. Hopkins, 1878.

Baltimore County Map, showing road system - Scale 1:62,500, size 41x49 inches, lithoprint in colors, 1935.

Anne Arundel County Sanitary Commission, General District Map - Scale 1 inch = 500 feet, four sheets, size 36x36 inches, blue prints, 1932.

Washington Suburban Sanitary District, Hyattsville and Vicinity - Scale 1 inch = 200 feet, four sheets, size 33x22 inches, black line prints.

Small Scale Map, District of Columbia via boulevard to Lakeland - size 45x37 inches, black line print.

Large Scale Map, Vicinity of Peace Cross, Bladensburg - size 66x42 inches, black line print.

Washington Sanitarium's Dairy Farm - Scale 1 inch = 200 feet, size 36x22 inches, tracing, 1923.

Hagerstown, City Park, Topographic Map - No scale, size 18x13 inches, colored photostat, 1921.

State of Maryland, Fish and Game Habitats and Recreational Areas - Prepared by the Conservation Department in cooperation with Works Progress Administration, Natural History Society of Maryland and Maryland State Planning Commission, size 38x21 inches, printed in colors, 1938.

PAMPHLETS AND PUBLICATIONS

DEPARTMENT OF COMMERCE, UNITED STATES COAST AND GEODETIC SURVEY, pamphlet form, book size.

Paper binding -

Serial 453, United States Magnetic Tables and Magnetic Charts for 1925.
Serial 455, Results of Magnetic Observations in 1928.
Serial 457, Magnetic Declination in Delaware, Maryland, Virginia, West Virginia, Kentucky and Tennessee, with charts.
Serial 482, Results of Magnetic Observations in 1929.
Serial 540, 1932, Magnetic Declinations in the United States, 1930.
Serial 544, Results of Magnetic Observations in 1930.
Serial 575, Tide Tables Atlantic Ocean, 1936.
Serial 577, Catalog of U. S. Coast and Geodetic Survey Nautical Charts, Coast Pilots, Tide Tables, Current Tables, Tidal Current Charts, Airway Maps, April 1935.
Serial 592, Magnetic Declination in the United States.
Special Publication 8, Formulas and Tables for the Computation of Geodetic Positions.
Special Publication 23, U. S. Coast and Geodetic Survey, Description of its work, methods and organization.
Special Publication 41, Use of Mean Sea Level as the Datum for Elevations.
Special Publication 57, General Theory of Polyconic Projections.
Special Publication 60, A Study of Map Projections in General.
Special Publication 67, Latitude Developments Connected with Geodesy and Cartography.
Special Publication 71, Relation Between Plane Rectangular Coordinates and Geographic Positions, revised 1938.
Special Publication 76, Triangulation in Massachusetts.
Special Publication 85, Plane Table Manual.
Special Publication 106, Earth Movements in California.
Special Publication 117, The Earth's Magnetism.
Special Publication 145, Manual of Second and Third Order Triangulation and Traverse.
Special Publication 151, Comparison of Old and New Triangulation in California.
Special Publication 194, Manual of Traverse Computations on the Lambert Grid.
Special Publication 197, Practical Air Navigation and the Use of the Aeronautical Charts of the Department of Commerce.
Special Publication 207, Geodetic Operations in the United States, 1933-1935.
Work of U. S. Coast and Geodetic Survey, 1909.
Telegraphic longitudes, the Pacific Arcs from San Francisco to Manila, 1903-1904.
Field Engineers Bulletin No. 7, June, 1934.
Field Engineers Bulletin No. 8, December, 1934.
Field Engineers Bulletin No.10, December, 1936.
Field Engineers Bulletin No.12, December, 1938.

Cloth binding -

Special Publication 68, Elements of Map Projection.
Special Publication 101, Precise Triangulation, Traverse and Leveling in North Carolina.
Special Publication 114, Triangulation in Maryland.
Special Publication 120, Manual of First Order Triangulation.
Special Publication 137, Traverse Manual.
Special Publication 138, Manual of Triangulation Computation.
Special Publication 140, Manual of First Order Leveling.
Special Publication 145, Manual of Second and Third Order Triangulation.
Special Publication 193, Manual of Plane Coordinate Computation.
Special Publication 195, Manual of Traverse Computation on the Transverse Mercator Grid.
General Instructions for the field work of the U. S. Coast and Geodetic Survey - 1908.
The Evolution of the Nautical chart.

DEPARTMENT OF INTERIOR, UNITED STATES GEOLOGICAL SURVEY, pamphlet form, book size

Paper binding -

Bulletin 307, Manual of Topographic Methods, 1906.
Bulletin 434, Results of Spirit Leveling in Delaware, District of Columbia, Maryland and Virginia 1896 to 1909 inclusive.
Bulletin 563, Results of Spirit Leveling in Maryland.
Bulletin 644-K, Primary Traverse in Maryland and the District of Columbia.
Bulletin 689, Boundaries, areas, Geographic Centers and Altitudes of the United States and the Several States, with maps.
Bulletin 788, Topographic Instructions of the U. S. Geological Survey.
Bulletin 788-A, Topographic Instructions of the U. S. Geological Survey.
Bulletin 788-B, Topographic Instructions of the U. S. Geological Survey.
Bulletin 788-C, Topographic Instructions of the U. S. Geological Survey.
Bulletin 788-D, Topographic Instructions of the U. S. Geological Survey.
Bulletin 788-E, Topographic Instructions of the U. S. Geological Survey.
Graphic Tables and Formulas - 1908.

MARYLAND GEOLOGICAL SURVEY

Paper binding -

Report on the Survey of the Boundary Line between Allegany and Garrett Counties.

UNITED STATES DEPARTMENT OF AGRICULTURE, BUREAU OF SOILS
In cooperation with the Maryland Geological Survey and the Maryland Agricultural Experiment Station:

Soil Survey of each of the 23 counties in Maryland, in pamphlet form, book size, paper binding, describing the area, climate, agriculture and soils, together with a soil map of the county folded in back of same.

DEPARTMENT OF AERONAUTICAL ENGINEERING OF SYRACUSE UNIVERSITY, pamphlet form, book size.

Paper binding -

The following bulletins on Topographic Mapping by Aerial Photography:

Adoption of the principle of Parallax to Comparator and Photogoniometer Measurements, March, 1931.
Supplemental Topics in Aerial Photogrammetry Concerning Computations based upon Comparator Measurements, November, 1933.
The Special Orientation of Aerial Photographs, February, 1936.

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An Analysis of the Status of Mapping in Pennsylvania, Pennsylvania State Planning Board.
Bulletin 79 - Azimuth Determination, Ohio State University.
Final Map Standards, U. S. Department of Agriculture, Bureau of Public Roads.
Final Report - Ohio Cooperative Topographic Survey - 1933.
General Bulletin - Connecticut Geodetic Survey.
Instructions and Equipment Details of the Texas Civil Works Control Surveys.
Land Court, 1933.
Land Court Instructions as to Surveys, 1932.
Lectures in Geodesy by H. J. Shea - Part I and Part II.
Report of the Geodetic and Topographic Survey of Richmond, Virginia, 1923.
Suggested Symbols for Plans, Maps and Charts, National Resources Committee.
Technical Procedure for Geodetic Surveys, Massachusetts Geodetic Survey, 1936.
The Massachusetts Local Control Survey.
A Standard System of Plane Coordinates for Pennsylvania, Pennsylvania State Planning Board, 1936.
Tree Heights from Air Photographs, The Association of Professional Engineers of the Providence of British Columbia.
Bulletin 46 - Work of the New Jersey Geodetic Control Survey, 1938.
Plane Coordinates of Minute Intersections of Meridians and Parallels, State of Massachusetts - Massachusetts Geodetic Survey, 1937.
Connecticut Geodetic Survey - Stamford Bulletin, WPA Project No. 1023.